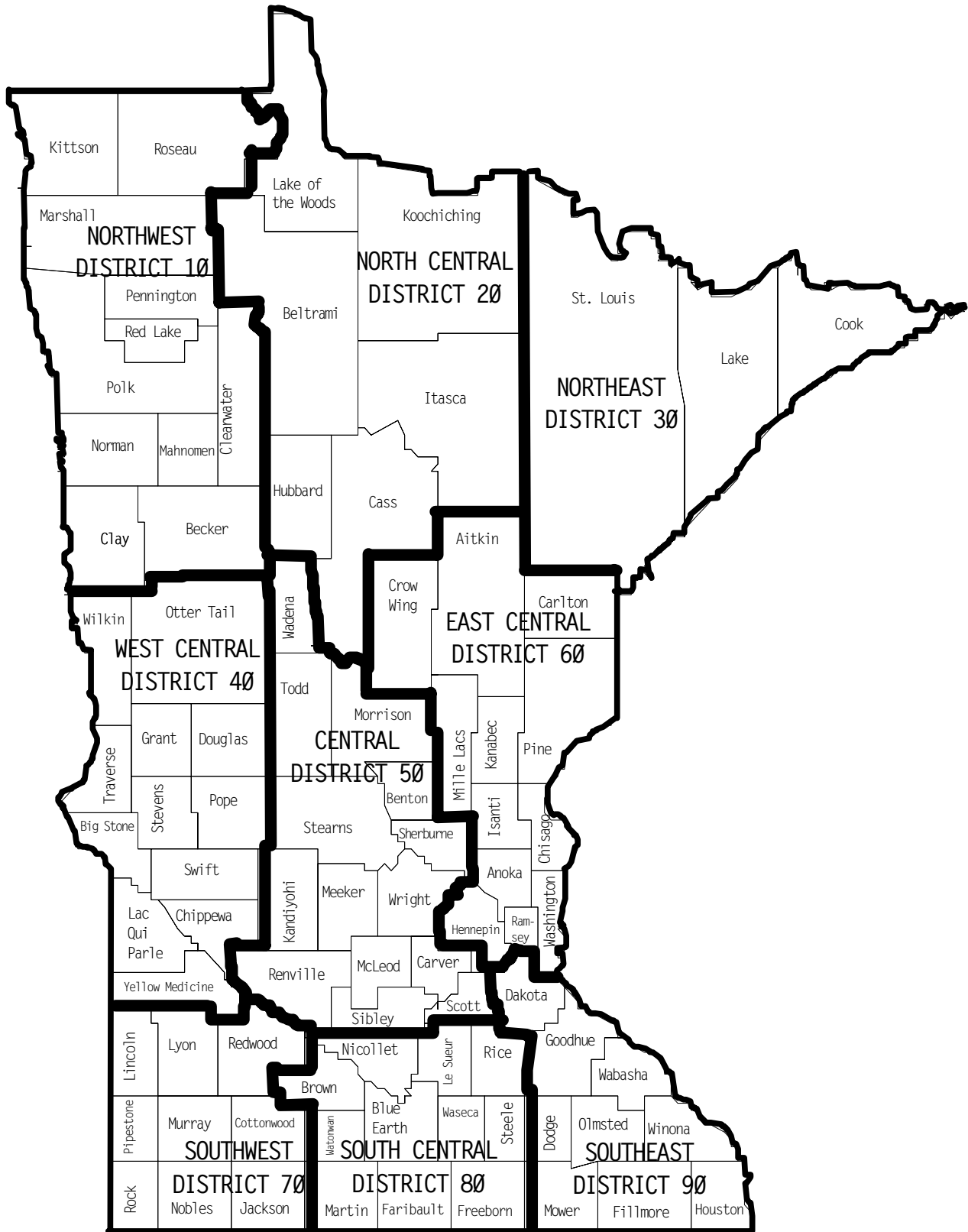


MINNESOTA'S AGRICULTURAL STATISTICS DISTRICTS



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Minnesota Agricultural Statistics 2005

Douglas A. Hartwig, Director
Dan Lofthus, Deputy Director

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ADMINISTRATION

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COVER DESIGN

Kabao Her

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Heidi Spoelstra - Ruthton
Julie Tesch - Belle Plaine
Rick Wendorff - Fulda
Karen Wendroth - Richmond
Rhea Lin West - Richville
Nancy Wettstein - Long Prairie

OFFICE INTERVIEWERS

Josephine Gonzalez
Gloria Griffin
Marguerite Harrington
Lorraine Lauren
Erma McGuire
Eleanor Stafstrom

USDA, National Agricultural Statistics Service, Minnesota Field Office
P.O. Box 7068, St. Paul, Minnesota 55107
Phone: (651) 296-2230 or 1-800-453-7502
<http://www.nass.usda.gov/mn/>
E-mail: nass-mn@nass.usda.gov

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Issued Cooperatively by

U.S. Department of Agriculture
National Agricultural Statistics Service
Ron Bosecker, Administrator

Minnesota Department of Agriculture
Gene Hugoson, Commissioner

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Foreword

Agriculture remains a cornerstone of Minnesota's economy. While challenges continue to test the industry, production agriculture is the economic engine that provides the spark for industries such as manufacturing, transportation and processing. One of every five Minnesota workers has a job directly or indirectly related to agriculture.

As generations of Minnesotans become further removed from direct contact with agriculture, we must continue to remind others that farmers provide us with the safe, healthy food we enjoy, and are responsible for the economic well-being of many Minnesotans.

Accurate and timely information is vital for any industry, especially one as competitive and fast-changing as agriculture. This edition of the annual *Minnesota Agricultural Statistics* provides a wide range of quality information on trends in crops and livestock production, farm income and expenses and weather data on planting and harvesting conditions.

Thank you to the Minnesota farmers and agri-businesses for responding to the surveys by the USDA, National Agricultural Statistics Service, Minnesota Field Office and making this publication possible.

Sincerely,



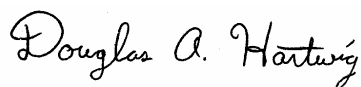
Gene Hugoson, Commissioner
Minnesota Department of Agriculture



I am proud to present, on behalf of the staff in the Minnesota Field Office of USDA's, National Agricultural Statistics Service, the "Minnesota Agricultural Statistics 2005". We are highlighting from the farm to the consumer on this year's cover. Agriculture is important to everyone and U.S. and Minnesota farmers work hard to ensure that safe and abundant food is available to feed the nation and the world. At USDA, National Agricultural Statistics Service, we count agriculture because "Agriculture Counts".

I want to thank all Minnesota farmers and agribusiness people, County Farm Service Agency and Natural Resources Conservation Service staff and the University of Minnesota Extension Service personnel who voluntarily provide the data presented in this annual bulletin. Their participation in our surveys allows us to produce the accurate facts on Minnesota agriculture. As you are sitting down to a meal don't forget to give thanks for the nation's farmers who are providing food for the nation.

If you would like additional information, e-mail us at nass-mn@nass.usda.gov or call us at 1-800-453-7502. You will also find all of our data on our web site at www.nass.usda.gov/mn/.



Douglas A. Hartwig, Director
Minnesota Agricultural Statistics

STATE RANKINGS: Minnesota's Rank Among States 1/

Item	1	2	3	4	5	6	7	8	9	10
Cash Receipts, 2003 2/										
Total	CA	TX	IA	NE	KS	MN	IL	NC	FL	WI
Livestock & Livestock Products	TX	CA	NE	KS	IA	NC	WI	MN	CO	OK
Crops	CA	IA	IL	FL	TX	MN	WA	NE	IN	ND
Crop Production, 2004										
Corn	IA	IL	NE	MN	IN	SD	OH	MO	KS	WI
Soybeans	IL	IA	IN	MN	MO	NE	OH	SD	AR	KS
All Wheat	KS	ND	MT	OK	WA	SD	TX	ID	MN	NE
Spring Wheat	ND	MN	MT	SD	ID	WA	OR	CO	UT	NV
Oats	ND	SD	WI	MN	IA	TX	PA	MI	NE	NY
Barley	ND	ID	MT	WA	CO	MN	WY	OR	AZ	CA
All Sunflowers	ND	SD	KS	CO	MN	TX	NE			
Dry Edible Beans	ND	MI	NE	ID	CA	MN	CO	WA	WY	MT
All Hay	TX	MO	CA	KS	SD	IA	NE	OK	KY	MN
All Potatoes	ID	WA	WI	ND	CO	OR	ME	MN	CA	MI
Sugarbeets	MN	ID	ND	MI	CA	MT	NE	CO	WY	OR
Flaxseed	ND	MT	SD	MN						
Canola	ND	MN								
Sweet Corn for Processing	MN	WA	WI	OR	NY	DE	MD	PA		
Green Peas for Processing	MN	WA	WI	OR	NY	DE				
Cultivated Wild Rice 3/	CA	MN								
Livestock, Dairy, Poultry										
Red Meat Production, 2004	NE	IA	KS	TX	IL	MN	NC	CO	CA	CA
Cattle/Calves, January 1, 2005 4/	TX	KS	NE	CA	OK	MO	SC	SD	IA	WI
Milk Cows, January 1, 2005 5/	CA	WI	NY	PA	MN	ID	NM	TX	MI	OH
Cattle/Calves Marketed, 2004 6/	TX	NE	KS	CO	OK	CA	IA	SD	MO	NM
Cattle/Calves on Feed, Jan 1, 2005 4/	TX	NE	KS	CO	IA	CA	SD	OK	AZ	ID
Hogs & Pigs, December 1, 2004	IA	NC	MN	IL	IN	MO	NE	OK	KS	OH
Pig Crop, 2004	NC	IA	MN	IL	OK	NE	MO	IN	KS	OH
Hogs Marketed, 2004	IA	NC	MN	IL	MO	OK	NE	IN	SD	KS
All Sheep & Lambs, Jan 1, 2005 7/	TX	CA	WY	SD	CO	MT	UT	ID	IA	OR
Lamb Crop, 2004 4/	TX	WY	SD	MT	CA	UT	ID	IA	CO	OR
All Chickens, December 1, 2004	IA	OH	IN	GA	PA	CA	TX	AR	NC	MN
Eggs Produced, Dec 2002-Nov 2004 4/	IA	OH	PA	IN	CA	GA	TX	AR	NE	FL
Turkeys Raised, 2004 8/	MN	NC	AR	MO	VA	CA	IN	PA	SC	IA
Milk Production, 2004	CA	WI	NY	PA	ID	MN	NM	MI	TX	WA
Dairy Products Manufactured, 2004										
Total Cheese	WI	CA	ID	NY	MN	PA	OH	SD	IA	MO
American Cheese	WI	CA	MN	IA	OR	NY	OH	PA		
Ice Cream	CA	IN	TX	IL	PA	MN	NY	FL	OH	MO
Mink Pelts Produced, 2003	WI	UT	OR	MN	ID	IA	WA	SD	OH	IL
Honey Produced, 2004	ND	SD	FL	CA	MT	MN	TX	ID	WI	NE
Agricultural Exports, Fiscal Year 2003 2/	CA	IA	TX	IL	NE	KS	MN	WA	ND	IN

1/ Rankings based on published data.

2/ Source: ERS (www.ers.usda.gov/data/)

3/ Source: Minnesota Cultivated Wild Rice Council.

4/ Minnesota ranks 11th.5/ NM & TX tied for 7th.6/ Minnesota ranks 16th.7/ Minnesota ranks 11th, tied with NM.8/ PA and SC tied for 8th.

COUNTY RANKINGS: Minnesota's Leading Agricultural Counties

Item	1	2	3	4	5	6	7	8	9	10
2003 Cash 1/ Farm Receipts										
Total	Stearns	Renville	Martin	Polk	Blue Earth	Kandiyohi	Otter Tail	Redwood	Brown	Nobles
Crops	Polk	Renville	Clay	Marshall	Redwood	Faribault	Martin	Wilkin	Norman	Freeborn
Livestock	Stearns	Martin	Kandiyohi	Blue Earth	Morrison	Otter Tail	Renville	Rock	Nicollet	Brown
Government Payments	Polk	Marshall	Stearns	Renville	Kittson	Norman	Otter Tail	Roseau	Redwood	Martin
2004 Crop Production										
Corn for Grain	Renville	Martin	Redwood	Faribault	Nobles	Blue Earth	Jackson	Freeborn	Mower	Cottonwood
Soybeans	Redwood	Martin	Renville	Blue Earth	Nobles	Faribault	Jackson	Cottonwood	Mower	Lyon
All Wheat	Polk	Marshall	Clay	Norman	Kittson	Wilkin	Becker	Otter Tail	Pennington	Red Lake
Oats	Stearns	Otter Tail	Todd	Fillmore	Wabasha	Morrison	Douglas	Winona	Goodhue	Houston
Barley	Marshall	Polk	Roseau	Pennington	Stearns	Kittson	Norman	Clay	Otter Tail	Grant
Sunflowers	Norman	Wilkin	Marshall	Kittson	Polk	Otter Tail	Clay	Pennington	Red Lake	Roseau
Sugarbeets	Polk	Clay	Wilkin	Norman	Renville	Marshall	Chippewa	Kittson	Kandiyohi	Grant
Canola	Roseau	Marshall	Lake of the Woods	Kittson	Pennington					
Dry Edible Beans	Polk	Otter Tail	Hubbard	Morrison	Renville	Swift	Wadena	Clay	Chippewa	Marshall
All Hay	Stearns	Otter Tail	Winona	Fillmore	Morrison	Todd	Pine	Wabasha	Houston	Goodhue
Potatoes 2/	Sherburne	Morrison	Polk	Todd	Clay	Freeborn				
Green Peas 3/	Renville	Brown	Mower	Olmsted	Redwood	Dakota	Sibley	Steele	Martin	Wabasha
Sweet Corn	Renville	Brown	Olmsted	Mower	Redwood	Sibley	Freeborn	Steele	Waseca	Faribault
Livestock, Dairy & Poultry										
Cattle & Calves, Jan 1, 2005	Stearns	Otter Tail	Morrison	Winona	Fillmore	Goodhue	Todd	Wabasha	Houston	Rock
Beef Cows, Jan 1, 2005 4/	Fillmore	Otter Tail	Morrison	Todd	Cass	Beltrami	Stearns	Pine	Clearwater	Houston
Milk Cows, Jan 1, 2005	Stearns	Morrison	Winona	Otter Tail	Goodhue	Wabasha	Todd	Fillmore	Benton	Carver
Milk Prod., 2004	Stearns	Winona	Morrison	Otter Tail	Goodhue	Wabasha	Todd	Fillmore	Benton	Carver
Breeding Sheep & Lambs, Jan 1, 2005 5/	Lincoln	Murray	Pipestone	Cottonwood	Otter Tail	Lyon	Goodhue	Sibley	Kandiyohi	Winona
Hogs, Dec 1, 2004 6/	Martin	Blue Earth	Nobles	Brown	Nicollet	Mower	Freeborn	Jackson	Rock	Pipestone
Pig Crop, 2004	Martin	Blue Earth	Pipestone	Brown	Renville	Waseca	Freeborn	Nicollet	Stevens	Cottonwood
Cattle & Calves on Feed, Jan 1, 2005 7/	Lyon	Rock	Stearns	Redwood	Nobles	Brown	Cottonwood	Murray	Martin	Dakota

1/ Bureau of Economic Analysis, Department of Commerce

2/ Includes published counties only.

3/ Martin and Wabasha tied for 9th.4/ Clearwater and Houston tied for 9th.5/ Goodhue and Sibley tied for 7th.6/ Brown and Nicollet tied for 4th. Pipestone and Watonwan tied for 10th.7/ Brown and Cottonwood tied for 6th.

FARM NUMBERS

The 2004 total numbers of farms in Minnesota was estimated at 79,800, down 200 farms from 2003. The number of farms in the \$1,000-\$9,999 economic sales class decreased 400 to 34,800 in 2004. Those with sales in the \$10,000-\$99,999 economic sales class remained unchanged in 2004, at 25,500 farms.

Farms in the \$100,000-\$249,000 economic sales class decreased 100 farms to 9,900 in 2004. Farms in the \$250,000-\$499,999 and \$500,000 and over sales class increased 200 and 100 respectively in 2004.

A farm is defined as any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year. Government payments are included as sales.

**NUMBER OF FARMS, LAND IN FARMS, AND
AVERAGE SIZE: Minnesota, 1993-2004 1/**

Year	Number of Farms	Land in Farms	Avg. Size of Farms
	Number	1,000 Acres	Acres
1993	86,000	29,700	345
1994	84,500	29,500	349
1995	83,000	29,400	354
1996	82,000	29,200	356
1997	81,000	29,100	359
1998	80,000	28,600	358
1999	81,000	28,200	348
2000	81,000	27,900	344
2001	81,000	27,800	343
2002	80,900	27,800	344
2003	80,000	27,700	346
2004	79,800	27,600	346

1/ A farm is any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year.

**NUMBER OF FARMS: By Economic Sales Class
Minnesota, 1999-2004**

Year	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000-\$249,999	\$250,000-\$499,999	\$500,000 & Over	Total
	Number					
1999	30,500	29,500	12,400	5,500	3,100	81,000
2000	32,100	28,400	11,600	5,500	3,400	81,000
2001	33,900	27,100	10,900	5,400	3,700	81,000
2002	35,400	26,200	10,000	5,400	3,900	80,900
2003	35,200	25,500	10,000	5,400	3,900	80,000
2004	34,800	25,500	9,900	5,600	4,000	79,800

**LAND IN FARMS: By Economic Sales Class
Minnesota, 1999-2004**

Year	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000-\$249,999	\$250,000-\$499,999	\$500,000 & Over	Total
	1,000 Acres					
1999	3,140	8,000	6,600	5,460	5,000	28,200
2000	3,210	7,500	6,400	5,390	5,400	27,900
2001	3,220	7,200	6,200	5,380	5,800	27,800
2002	3,290	6,830	5,900	5,380	6,400	27,800
2003	3,070	6,850	5,920	5,410	6,450	27,700
2004	3,000	6,600	5,800	5,400	6,800	27,600

EXPORTS

Minnesota ranked seventh in farm exports for fiscal year 2003. The value of the state's exports came to \$2.64 billion versus \$2.17 billion in 2002. This accounts for 4.7 percent of the U.S. total.

The table below shows the value of farm exports by commodity group. These figures are not actual exports but are derived from Minnesota's contribution to U.S. production and/or sales. They reflect Minnesota's important stake in the national export market.

AGRICULTURAL EXPORTS: Minnesota, FY 2003

Commodity	Value
	<u>Million Dollars</u>
Feed Grains & Products	711.1
Soybeans & Products	928.7
Wheat & Products	227.1
Live Animals & Meat 1/	250.4
Vegetables & Preparations	192.9
Feeds & Fodders	47.9
Dairy Products	74.4
Hides & Skins	52.1
Poultry & Products	52.1
Sunflower Seed & Oil	4.0
Fats, Oils, Greases	15.5
Seeds	15.7
Other 2/	65.6
Total	2,637.3

AGRICULTURAL EXPORTS: State Rankings, FY 2003

Rank	State	Value
		<u>Million Dollars</u>
First	CA	8,210.0
Second	IA	3,637.8
Third	TX	3,427.8
Fourth	IL	3,363.5
Fifth	NE	3,041.1
Sixth	KS	2,969.6
Seventh	MN	2,637.3
Eighth	WA	1,912.0
Ninth	ND	1,767.3
Tenth	IN	1,622.3

1/ Excludes Poultry.

2/ Includes minor oilseeds, confectionary, nursery and greenhouse, essential oils, beverages (excluding juice), and other miscellaneous animal and vegetable products.

Note: Totals may not add due to rounding.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C. and USDA, NASS website (www.usda.gov/nass).

LAND VALUES: Average Per Acre Value of Farmland and Buildings, Minnesota and Selected States, January 1, 2001-2004 1/

State	2001	2002	2003	2004	Change 2003-2004
	<u>Dollars Per Acre</u>				<u>Percent</u>
MN	1,400	1,500	1,600	1,800	12.5
IA	1,850	1,920	2,010	2,200	9.5
ND	410	415	425	455	7.1
SD	405	430	460	500	8.7
WI	1,950	2,150	2,300	2,500	8.7
48 States 2/	1,150	1,210	1,270	1,360	7.1

1/ Value of farmland and buildings in current dollars (not adjusted for inflation).

2/ Excludes Alaska and Hawaii.

LAND VALUES

Each year, the Minnesota Department of Revenue compiles every farmland sale in the state into a single data set that includes sale price, parcel size, number of tillable acres, and other pertinent items.

Statewide number of sales in 2004 totaled 2,010, a decrease of 6.1 percent from the 2003 sales. The average acreage per sale in 2004 was 112 acres, compared with 109 acres in 2003. Average sale price per acre was \$2,067 in 2004, an increase of \$150 per acre from the 2003 average.

Cropland rented for cash in the state averaged \$83.50 per acre, an increase of \$1.50 from a year ago.

FARMLAND SALES: Number, Acres, and Price, Minnesota, 2000-2004

Year	Number of Sales	Acres Sold	Price Per Acre		
			Average	Minimum	Maximum
	<u>Number</u>	<u>Acres</u>		<u>Dollars</u>	
2000	2,341	264,576	1,417	100	12,000
2001	2,282	255,222	1,609	102	14,422
2002	2,321	256,276	1,745	104	13,500
2003	2,391	261,490	1,917	142	15,000
2004	2,010	225,662	2,067	126	14,257

FARMLAND SALES: Number, Acres, and Price, by District, Minnesota, 2004

Reporting District	Number of Sales	Acres Sold	Price Per Acre		
			Average	Minimum	Maximum
	<u>Number</u>	<u>Acres</u>		<u>Dollars</u>	
Northwest	425	71,047	816	126	4,434
North Central	98	8,319	1,209	205	6,299
Northeast	14	1,064	1,309	291	5,650
West Central	315	34,513	1,618	271	8,899
Central	451	41,487	2,650	494	13,979
East Central	150	10,001	2,858	312	14,064
Southwest	158	20,436	1,940	544	6,537
South Central	218	21,815	2,784	611	9,750
Southeast	181	16,980	3,442	1,296	14,257
Minnesota	2,010	225,662	2,067	126	14,257

Source: "Minnesota Agricultural Economist".

Steven J. Taff, Department of Applied Economics, University of Minnesota.

Internet Web Site (www.apec.umn.edu/faculty/staff/).

CROPLAND RENTED FOR CASH: Average Cash Rent Per Acres, Minnesota and Selected States, 2001-2004 1/

State	2001	2002	2003	2004	Change 2003-2004
	----- Dollars Per Acre -----				Percent
MN	80.50	81.00	82.00	83.50	1.8
IA	117.00	120.00	122.00	126.00	3.3
ND	36.00	36.50	36.50	37.50	2.7
SD	40.00	42.00	45.00	47.50	5.6
WI	66.00	67.00	68.00	70.00	2.9
48 States 2/	71.00	71.60	73.00	76.50	4.8

1/ Cash rent is in normal dollars (not adjusted for inflation).

2/ Excludes Alaska and Hawaii.

**CORN AND SOYBEANS: Production Costs and Returns,
Heartland Region, 2002-2003 1/**

Item	Corn		Soybeans	
	2002	2003	2002	2003
	<u>Dollars Per Planted Acre</u>		<u>Dollars Per Planted Acre</u>	
Gross value of production (excluding direct Government payments)				
Total gross value of production	327.93	331.06	225.59	237.02
Operating costs				
Seed	31.60	34.89	25.72	27.78
Fertilizer, lime, and gypsum	37.24	45.00	6.47	6.87
Soil conditioners	0.09	0.09	0.09	0.09
Manure	1.37	1.60	0.41	0.48
Chemicals	26.22	26.50	17.29	17.40
Custom operations 2/	9.69	10.09	5.35	5.48
Fuel, lube, and electricity	15.28	18.81	5.72	7.16
Repairs	12.35	12.63	8.62	8.73
Interest on operating capital	1.13	0.79	0.59	1.39
Total operating costs	134.97	150.40	70.26	75.38
Allocated overhead				
Hired labor	2.19	2.30	1.19	1.24
Opportunity cost of unpaid labor	23.03	23.79	14.57	15.09
Capital recovery of machinery and equipment	51.87	53.06	40.22	40.68
Opportunity cost of land (rental rate)	98.83	100.28	94.12	95.93
Taxes and insurance	5.07	5.19	5.75	5.89
General farm overhead	10.69	10.93	11.81	12.10
Total allocated overhead	191.68	195.55	167.66	170.93
Total costs listed	326.65	345.95	237.92	246.31
Value of production less total costs listed	1.28	-14.89	-12.33	-9.29
Value of production less operating costs	192.96	180.66	155.33	161.64
Supporting information				
Yield (bu./planted acre)	142	157	43	36
Price (dollars per bushel at harvest)	2.30	2.10	5.19	6.57
Enterprise size (planted acres) 3/	270	270	280	280
Production practices 3/				
Irrigated (percent)	5	5	5	5
Dryland (percent)	95	95	95	95

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS websites listed below.

2/ Cost of custom operations, technical services, and commercial drying.

3/ Developed from survey base year 2001 for corn. Developed from base year 1997 for soybeans.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data)

WHEAT: Production Costs and Returns, Northern Plains Region, 1996-2003 1/ 2/

Item	1996	1997	1998	1999	2000	2001	2002	2003
<u>Dollars per Planted Acre</u>								
Gross value of production (excluding direct Government payments)								
Wheat	143.56	93.61	100.1	85.49	83.98	77.94	80.59	121.34
Wheat straw	0.60	0.74	1.74	1.42	1.67	1.85	2.39	2.08
Total, gross value of production	144.16	94.35	101.84	86.91	85.65	79.79	82.98	123.42
Cash expenses								
Seed	8.93	7.64	7.64	6.36	6.19	6.34	6.33	7.90
Fertilizer, lime, and gypsum	15.63	14.85	14.78	13.46	13.91	19.66	14.40	19.79
Chemicals	8.27	8.33	10.61	10.28	10.15	10.14	10.09	10.05
Custom operations	2.72	2.64	4.04	3.82	4.00	3.77	3.13	4.69
Fuel, lube, and electricity	7.12	6.74	4.25	4.16	6.06	6.03	5.22	7.02
Repairs	14.09	12.77	8.10	8.85	9.85	9.66	9.57	10.38
Hired Labor	2.39	2.52	1.45	1.48	1.60	1.67	1.70	1.80
Other variable cash expenses 3/	0.03	0.03	0.16	0.16	0.16	0.17	0.17	0.18
Total, variable cash expenses	59.18	55.52	51.03	48.57	51.92	57.44	50.61	61.81
General farm overhead	4.54	5.35	6.32	6.42	6.49	6.76	6.97	7.14
Taxes and insurance	8.67	9.61	3.76	3.81	3.85	3.95	3.99	4.06
Interest	9.39	9.47	1.19	1.11	1.45	0.94	0.41	0.32
Total, fixed cash expenses	22.60	24.43	11.27	11.34	11.79	11.65	11.37	11.52
Total, cash expenses	81.78	79.95	62.04	59.91	63.71	69.09	61.98	73.33
Gross value of production less cash expenses listed	62.38	14.40	39.80	27.00	21.94	10.70	21.00	50.09
Harvest-period price (dollars/bu.)	4.86	3.81	2.91	2.68	2.50	2.66	3.55	3.21
Yield (bu./planted acre)	29.54	24.57	34.40	31.90	33.60	29.30	22.70	37.80

1/ Data for 1996-1997 refer to the Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Data for 1998 and later refer to the Northern Great Plains Region which includes North Dakota, South Dakota, and parts of Montana, Wyoming, Nebraska and Minnesota.

3/ Cost of purchased irrigation water and baling.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/)

BARLEY: Production Costs and Returns, Northern Plains Region, 1996-2003 1/ 2/

Item	1996	1997	1998	1999	2000	2001	2002	2003
<u>Dollars per Planted Acre</u>								
Gross value of production (excluding direct Government payments)								
Barley	139.00	91.83	79.90	73.27	68.82	75.98	69.85	154.11
Barley straw	1.89	2.67	2.07	1.79	2.02	2.07	2.33	4.13
Total, gross value of production	140.89	94.50	81.97	75.06	70.84	78.05	72.18	158.24
Cash expenses								
Seed	7.63	6.77	6.30	5.73	5.84	5.84	5.81	8.21
Fertilizer, lime, and gypsum	17.11	16.68	14.49	13.52	13.80	18.15	14.16	16.43
Chemicals	7.86	7.97	8.11	8.14	7.77	7.93	7.88	12.16
Custom operations	3.41	3.39	3.49	3.68	3.64	3.77	3.72	6.13
Fuel, lube, and electricity	8.85	8.59	7.55	7.72	10.28	8.92	8.30	7.76
Repairs	15.21	13.87	14.08	14.25	14.91	15.02	14.58	14.24
Hired labor	3.98	4.40	4.50	4.65	4.88	5.23	5.18	1.97
Other variable cash expenses 3/	0.98	1.04	1.06	1.32	1.14	1.32	1.19	0.69
Total, variable cash expenses	65.03	62.71	59.58	59.01	62.26	66.18	60.82	67.59
General farm overhead	7.28	7.58	6.07	5.77	5.82	6.01	6.15	8.10
Taxes and insurance	12.86	12.13	11.14	10.39	10.70	10.70	10.89	6.77
Interest 4/	13.70	12.20	11.33	11.40	11.40	12.15	10.84	0.35
Total, fixed cash expenses	33.84	31.91	28.54	27.56	27.92	28.86	27.88	15.22
Total, cash expenses	98.87	94.62	88.12	86.57	90.18	95.04	88.70	82.81
Gross value of production less cash expenses listed	42.02	-0.12	-6.15	-11.51	-19.34	-16.99	-16.52	75.43
Harvest-period price (dollars/bu.)	2.82	2.11	1.69	1.73	1.59	1.83	2.14	2.82
Yield (bu./planted acre)	49.29	43.52	47.28	42.35	43.28	41.52	32.64	54.65

1/ Data for 1996-2002 refer to the Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Data for 2003 refer to the Northern Great Plains Region which includes North Dakota, portions of Nebraska, Colorado, Wyoming, South Dakota, Montana, and Minnesota Ag. Statistics District 10.

3/ Cost of purchased irrigation water and baling.

4/ Data for 2003 includes interest on operating inputs only.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/)

OATS: Production Costs and Returns, North Central Region, 1996-2003 1/

Item	1996	1997	1998	1999	2000	2001	2002	2003
	Dollars per Planted Acre							
Gross value of production (excluding direct Government payments)								
Oats	119.06	104.46	64.03	68.26	69.90	85.42	103.02	119.02
Oats straw	44.21	49.88	44.21	45.34	46.48	48.18	48.77	49.35
Total, gross value of production	163.27	154.34	108.24	113.60	116.38	133.60	151.79	168.37
Cash expenses								
Seed	9.67	10.10	9.72	9.02	8.30	8.23	8.11	10.53
Fertilizer, lime, and gypsum	20.12	20.09	19.10	17.90	18.24	21.16	18.39	20.14
Chemicals	1.26	1.27	1.27	1.26	1.25	1.27	1.28	1.29
Custom operations 2/	5.75	5.71	5.73	5.75	5.76	5.82	5.78	5.80
Fuel, lube, and electricity	4.19	4.33	3.54	3.72	5.52	5.19	4.53	6.28
Repairs	6.50	7.63	7.10	6.70	6.57	6.69	6.77	6.80
Hired Labor	1.73	1.81	1.91	2.00	2.18	2.17	2.31	2.57
Other variable cash expenses 3/	1.63	1.84	1.63	1.67	1.71	1.78	1.80	1.82
Total, variable cash expenses	50.85	52.78	50.00	48.02	49.53	52.31	48.97	55.23
General farm overhead	4.52	5.31	5.01	5.08	5.21	5.38	5.50	5.63
Taxes and insurance	20.15	20.15	19.58	20.15	21.16	21.54	21.32	21.76
Interest	6.14	6.17	6.50	6.13	6.48	6.60	6.02	6.02
Total, fixed cash expenses	30.81	31.63	31.09	31.36	32.85	33.52	32.84	33.41
Total, cash expenses	81.66	84.41	81.09	79.38	82.38	85.83	81.81	88.64
Gross value of production less cash expenses listed	81.61	69.93	27.15	34.22	34.00	47.77	69.98	79.73
Harvest-period price (dollars/bu.)	2.02	1.62	1.09	1.10	1.02	1.32	1.67	1.67
Yield (bu./planted acre)	58.94	64.48	58.74	62.05	68.53	64.71	61.69	71.27

1/ The North Central Region includes Minnesota, Iowa, Wisconsin, Illinois, Michigan, and Ohio.

2/ Cost of custom operations and technical services.

3/ Cost of baling.

Note: Survey base changed in 1994.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/)**SUGARBEETS: Production Costs and Returns, Red River Valley, 1996-2003 1/**

Item	1996	1997	1998	1999	2000	2001	2002	2003
	Dollars per Planted Acre							
Gross value of production								
Beets - gross value of production	851.03	697.50	733.42	739.11	723.06	752.49	721.69	791.90
Cash expenses								
Seed	42.91	44.81	46.39	45.55	44.89	45.01	48.02	47.12
Fertilizer	41.68	39.86	35.68	33.83	28.74	37.21	29.79	36.96
Chemicals	71.12	71.13	71.43	70.62	109.03	109.80	109.72	109.60
Custom operations	23.93	23.30	25.78	24.79	23.49	23.02	23.53	24.81
Fuel, lube, and electricity	21.87	20.73	18.43	19.18	24.86	24.55	23.07	24.40
Repairs	29.37	31.53	33.53	34.38	32.52	34.59	37.00	38.59
Hired labor	77.02	83.06	86.06	84.88	51.76	55.21	55.95	58.44
Purchased irrigation water	0.04	0.05	0.05	0.04	0.06	0.06	0.06	0.06
Freight and dirt hauling charges	11.93	11.81	11.25	10.85	13.62	13.91	13.88	15.08
Miscellaneous 2/	16.54	16.94	15.71	15.77	13.30	13.75	13.65	14.39
Hauling allowance (-)	-11.39	-11.36	-10.75	-10.36	-10.34	-10.44	-10.45	-10.45
Total, variable cash expenses	325.02	331.86	333.56	329.53	331.93	346.67	344.22	359.00
General farm overhead	20.75	30.90	28.98	29.48	27.55	28.30	28.92	29.58
Taxes and insurance	33.23	39.24	40.39	40.76	14.57	12.59	12.84	13.13
Interest	32.88	41.99	48.63	49.59	8.38	4.96	2.44	1.59
Total, fixed cash expenses	86.86	112.13	118.00	119.83	50.50	45.85	44.20	44.30
Total, cash expenses	411.88	443.99	451.56	449.36	382.43	392.52	388.42	403.30
Gross value of production less cash expenses listed	439.15	253.51	281.86	289.75	340.63	366.97	333.27	388.60
Season-average price (dollars/ton)	46.76	38.43	35.21	37.16	35.10	42.27	39.01	39.01
Yield (net tons/planted acre)	18.20	18.15	20.83	19.89	20.60	17.80	18.50	20.30

1/ The Red River Valley includes Minnesota and eastern North Dakota.

2/ Includes costs deducted by the processor from the net payment and noncash benefits.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/)

**HOG PRODUCTION: Farrow-to-Finish, Farrow-to-Feeder,
Feeder Pig-to-Finish, Costs and Returns, Heartland Region, 2003 1/**

Item	All Hog Producers	Farrow to Finish	Farrow to Feeder 2/	Feeder Pig to Finish
<u>Dollars per Cwt Gain 3/</u>				
Gross value of production				
Market hogs	36.29	35.62	1.78	43.59
Feeder pigs	10.16	0.72	102.91	0.15
Cull stock	0.99	1.74	2.53	0.01
Breeding stock	0.44	0.15	0.17	0.01
Inventory change	0.00	0.06	-4.57	1.04
Other income 4/	1.72	1.63	1.39	1.87
Total gross value of production	49.60	39.92	104.21	46.67
Operating costs				
Feed				
Grain	7.65	9.77	1.96	6.10
Protein sources	6.64	9.40	0.92	4.11
Complete mixes	8.27	4.96	26.98	9.46
Other feed items 5/	0.22	0.37	0.24	0.08
Total feed costs	22.78	24.50	30.10	19.75
Other				
Feeder pigs	12.61	0.07	0.59	27.28
Veterinary and medicine	1.21	1.66	2.77	0.55
Bedding and litter	0.04	0.04	0.06	0.02
Marketing	0.66	0.35	3.83	0.57
Custom services	0.33	0.28	0.29	0.41
Fuel, lube, and electricity	1.58	1.69	4.08	1.00
Repairs	0.91	1.28	1.15	0.42
Other operating costs 6/	0.04	0.03	0.04	0.03
Interest on operating capital	0.21	0.16	0.23	0.26
Total operating costs	40.37	30.06	43.14	50.29
Allocated overhead				
Hired labor	2.80	3.18	14.06	0.49
Opportunity cost of unpaid labor	5.72	7.44	7.59	3.35
Capital recovery of machinery and equipment	10.99	11.82	28.04	6.88
Opportunity cost of land (rental rate)	0.05	0.06	0.07	0.02
Taxes and insurance	0.49	0.54	0.94	0.37
General farm overhead	1.05	1.16	1.61	0.80
Total, allocated overhead	21.10	24.20	52.31	11.91
Total costs listed	61.47	54.26	95.45	62.20
Value of production less total costs listed	-11.87	-14.34	8.76	-15.53
Value of production less operating costs	9.23	9.86	61.07	-3.62
Supporting information				
Production arrangement (percent of production)				
Independent	70	99	22	47
Under contract	30	1	78	53
Size of operation (head sold/removed)				
Market hogs	1,924	1,712	76	2,770
Feeder pigs	1,112	56	10,125	13

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website. Developed from survey base year, 1998.

2/ Farrow to Feeder data are for the United States (Heartland Region data are not available).

3/ Cwt gain = (cwt sold - cwt purchased) ÷ cwt inventory change.

4/ Value of manure production.

5/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

6/ Costs for odor control, fees, permits, licenses, and other regulatory costs.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/)

COW-CALF: Production Costs and Returns, Heartland Region, 2002-2003 1/

Item	2002	2003
	<u>Dollars per Bred Cow</u>	
Gross value of production		
Steer calves	171.63	187.53
Heifer calves	115.41	126.15
Yearling steers	34.99	40.79
Yearling heifers	10.80	12.55
Other cattle	64.53	75.11
Total gross value of production	401.63	446.51
Operating costs		
Purchased cattle for backgrounding	23.32	26.60
Feed		
Concentrates and other feed	26.80	26.86
Supplemental feed	39.80	41.96
Harvested forages	200.89	189.51
Cropland pasture	13.21	13.36
Private pasture	74.48	76.01
Public land	0.36	0.35
Total feed costs	355.54	348.05
Other		
Veterinary and medicine	38.48	39.47
Bedding and litter	1.34	1.37
Marketing	4.27	4.38
Custom operations	40.18	41.12
Fuel, lube, and electricity	16.16	16.16
Repairs	29.24	29.96
Interest on operating inputs	4.40	2.76
Total operating costs	512.93	509.87
Allocated overhead		
Hired labor	0.61	0.64
Opportunity cost of unpaid labor	219.85	230.47
Capital recovery cost of machinery and equipment	280.58	281.21
Opportunity cost of land	5.55	5.72
Taxes and insurance	44.22	44.94
General farm overhead	84.08	85.88
Total allocated overhead	634.89	648.86
Total cost listed	1,147.82	1,158.73
Value of production less total costs listed	-746.19	-712.22
Value of production less operating costs	-111.30	-63.36

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website listed below.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/)



MILK: Production Costs and Returns, per cwt sold, 2002-2003

Item	Heartland 1/		Northern Crescent 2/	
	2002	2003	2002	2003
	<u>Dollars per Cwt.</u>			
Gross value of production				
Milk	12.33	12.93	12.91	13.41
Cattle	1.41	1.65	1.14	1.28
Other income 3/	0.82	0.97	0.66	0.75
Total gross value of production	14.56	15.55	14.71	15.44
Operating costs				
Feed				
Feed grains	2.24	2.35	1.45	1.49
Hay and straw	2.77	2.54	1.31	1.35
Complete feed mixes	0.90	0.96	1.16	1.25
Liquid whey and milk replacer	0.10	0.11	0.09	0.10
Silage	0.76	0.77	0.95	0.91
Grazed pasture and cropland	0.13	0.13	0.07	0.07
Other feed item 4/	1.64	1.59	1.23	1.29
Total feed costs	8.54	8.45	6.26	6.46
Other				
Veterinary and medicine	0.76	0.78	0.78	0.81
Bedding and litter	0.22	0.23	0.23	0.24
Marketing	0.22	0.22	0.31	0.32
Custom service	0.53	0.54	0.48	0.49
Fuel, lube, and electricity	0.49	0.56	0.51	0.58
Repairs	0.60	0.60	0.62	0.64
Other operating costs 5/	0.00	0.00	0.00	0.00
Interest on operating capital	0.10	0.06	0.08	0.05
Total operating costs	11.46	11.44	9.27	9.59
Allocated overhead				
Hired labor	0.81	0.85	1.28	1.38
Opportunity cost of unpaid labor	5.79	5.90	5.27	5.29
Capital recovery of machinery and equipment 6/	4.75	4.71	4.25	4.29
Opportunity cost of land (rental rate)	0.09	0.09	0.08	0.08
Taxes and insurance	0.20	0.20	0.22	0.23
General farm overhead	0.60	0.61	0.64	0.66
Total allocated overhead	12.24	12.36	11.74	11.93
Total cost listed	23.70	23.80	21.01	21.52
Value of production less total costs listed	-9.14	-8.25	-6.30	-6.08
Value of production less operating costs	3.10	4.11	5.44	5.85
Supporting Information				
Milk cows (head per farm)	60	61	69	70
Output per cow (pounds)	18,533	18,564	19,829	19,852
Milking frequency greater than twice per day (percent of farms)	1.82	1.95	3.09	3.13
Homegrown feed cost (percent of total feed cost)	59	59	49	0.08
Milk cows injected with BST (head per farm)	10	11	14	0.23

1/ The Heartland Region includes MN Agricultural Statistics Districts (ASD) 4, 7, 8, and 9, SD ASD 6 and 9, NE ASD 3 and 6, IA, MO ASD 1, 2, 3, 4, 5, and 9, IL, IN, KY ASD 1 and 2, and Ohio ASD 1, 4, 5, 7 and 8. The first data available for the Heartland Region is 2000.

2/ The Northern Crescent Region includes New England, New York ASD 1, 2, 3, 5, 6, 8 and 9, Ohio ASD 2 and 3, MI, WI and MN ASD 2, 3, 5 and 6. The first data available for the Northern Crescent Region is 2000.

3/ Income from renting or leasing dairy stock to other operations; renting space to other dairy operations; co-op patronage dividends associated with the dairy; assessment rebates, refunds, and other dairy related resources; and manure production.

4/ Cotton seed meal, protein supplements, protein by products, vitamin or mineral supplements, nonprotein byproducts, alfalfa cubes or pellets, green chop, corn stalks, and antibiotics and other medicated additives.

5/ Manure disposal fees, permits, licenses, and odor control costs.

6/ Machine and equipment, and housing, manure handling, and feed storage structures, and dairy breeding herd.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/)

FARM INCOME AND EXPENSES: Minnesota, 1999-2003

Item	1999	2000	2001	2002	2003
	Thousand Dollars				
Value of crop production	3,544,441	3,586,365	3,180,801	4,381,058	4,196,143
Food grains	210,224	244,095	252,214	273,244	322,208
Feed crops	1,241,535	1,259,443	1,157,851	1,706,695	1,767,778
Oil crops	1,207,319	1,263,223	1,095,993	1,460,718	1,615,402
Fruits and tree nuts	7,083	10,804	13,565	13,299	15,155
Vegetables	249,587	210,629	239,269	249,737	248,314
All other crops	530,106	502,938	512,994	540,827	546,932
Home consumption	10,285	10,727	10,046	7,797	8,008
Value of inventory adjustment 2/	88,302	84,506	-101,131	128,742	-327,654
Value of livestock production	3,610,287	3,912,711	4,300,453	3,609,410	4,057,623
Meat animals	1,618,071	2,117,684	2,357,601	1,913,037	2,269,255
Dairy products	1,312,220	1,126,560	1,297,343	1,011,318	1,044,224
Poultry and eggs	609,709	595,521	628,775	642,895	703,063
Miscellaneous livestock	40,844	43,349	52,762	54,646	55,629
Home consumption	6,103	4,397	3,696	2,869	2,947
Value of inventory adjustment 2/	23,340	25,200	-39,724	-15,355	-17,495
Revenues from services and forestry	854,167	852,611	1,089,112	930,987	994,811
Machine hire and custom work	76,818	60,922	112,940	68,165	101,458
Forest products sold	7,100	7,100	6,610	6,610	6,610
Other farm income	363,704	374,123	518,409	379,090	385,869
Gross imputed rental value of farm	406,545	410,466	451,139	477,122	500,874
Value of agricultural sector production 1/	8,008,896	8,351,687	8,570,366	8,921,455	9,248,577
Purchased inputs	5,104,414	5,455,884	5,834,299	5,620,395	5,637,029
Farm origin	1,942,763	2,107,401	2,307,084	2,202,790	2,499,124
Feed purchased	1,117,658	1,175,947	1,236,043	1,125,097	1,370,222
Livestock and poultry purchased	329,679	406,982	504,821	469,473	497,845
Seed purchased	495,426	524,472	566,220	608,220	631,057
Manufactured inputs	1,306,102	1,413,871	1,396,759	1,380,861	1,368,767
Fertilizers and lime	460,213	481,923	483,384	467,948	538,740
Pesticides	466,496	473,829	438,304	435,545	455,947
Petroleum fuel and oils	263,636	343,966	350,624	343,279	291,074
Electricity	115,757	114,153	124,447	134,089	83,006
Other purchased inputs	1,855,549	1,934,612	130,456	2,036,744	1,769,138
Repair and maintenance of capital items	502,922	458,018	623,558	597,134	623,026
Machine hire and customwork	172,225	181,406	292,564	118,273	160,963
Marketing, storage, and transportation	230,705	272,088	208,284	228,067	190,824
Contract labor	15,570	13,525	21,782	15,262	13,968
Miscellaneous expenses	934,127	1,009,575	984,268	1,078,008	780,357
Net government transactions	1,036,368	1,114,129	855,420	127,615	523,983
Direct Government payments	1,409,859	1,502,230	1,242,141	480,483	787,411
Motor vehicle registration and licensing	16,179	15,079	17,412	14,500	17,876
Property taxes	357,312	373,022	369,309	338,368	245,582
Gross value added	3,940,849	4,009,932	3,591,487	3,428,674	4,135,531
Capital consumption	963,504	970,098	984,157	991,247	983,696
Net value added	2,977,345	3,039,834	2,607,330	2,437,427	3,151,835
Payments to stakeholders	1,637,194	1,739,206	1,712,539	1,699,559	1,583,434
Employee compensation (total hired)	454,808	527,850	529,774	539,480	462,665
Net rent received by nonoperator	430,743	428,207	470,513	502,431	453,611
Real estate and nonreal estate interest	751,643	783,149	712,252	657,648	667,158
Net farm income	1,340,151	1,300,628	894,791	737,868	1,568,401

1/ Value of agricultural sector production is the gross value of the commodities and services produced within a year. Net value-added is the sector's contribution to the National economy and is the sum of the income from production earned by all factors-of-production, regardless of ownership. Net farm income is the farm operators' share of income from the sector's production activities. The concept presented is consistent with that employed by the Organization for Economic Cooperation and Development.

2/ A positive value of inventory change represents current-year production not sold by December 31. A negative value is an offset to production from prior years included in current-year sales.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site: (www.ers.usda.gov/data/)

CASH RECEIPTS FROM FARM MARKETINGS: Minnesota, 2001-2003 1/

Commodity	2001		2002		2003	
	Dollars	Percent of Total	Dollars	Percent of Total	Dollars	Percent of Total
	<u>1,000</u>	<u>Percent</u>	<u>1,000</u>	<u>Percent</u>	<u>1,000</u>	<u>Percent</u>
CROPS 2/						
Feed Crops						
Corn	1,059,370	13.9	1,608,371	20.4	1,665,629	19.4
Oats	6,287	0.1	9,945	0.1	8,708	0.1
Barley	13,469	0.2	8,130	0.1	17,893	0.2
Hay	78,726	1.0	80,249	1.0	75,548	0.9
Food Grains						
Wheat	251,475	3.3	272,431	3.5	321,158	3.7
Oil Crops						
Soybeans	1,077,471	14.2	1,444,045	18.4	1,589,469	18.5
Sunflowers	9,599	0.1	10,868	0.1	16,269	0.2
Vegetable Crops						
Potatoes	90,207	1.2	109,243	1.4	88,116	1.0
Sweet Corn (processed)	54,714	0.7	57,159	0.7	60,563	0.7
Green Peas (processed)	32,091	0.4	31,362	0.4	45,524	0.5
Other Crops						
Sugarbeets	314,179	4.1	336,452	4.3	336,452	3.9
Dry Beans	44,365	0.6	35,307	0.4	37,794	0.4
Apples	7,365	0.1	6,999	0.1	8,855	0.1
Floriculture	77,539	1.0	80,842	1.0	85,784	1.0
Other Greenhouse	94,300	1.2	95,400	1.2	96,500	1.1
Other Crops, Fruits, & Vegetables 3/	60,730	0.8	57,718	0.7	61,527	0.7
Total Crops	3,271,887	43.0	4,244,521	54.0	4,515,789	52.6
LIVESTOCK AND PRODUCTS						
Meat Animals						
Cattle & Calves	935,325	12.3	841,716	10.7	989,430	11.5
Hogs	1,410,773	18.5	1,059,829	13.5	1,266,668	14.7
Sheep & Lambs	11,503	0.2	11,492	0.1	13,157	0.2
Dairy Products						
Milk, Wholesale	1,297,343	17.1	1,011,318	12.9	1,044,224	12.2
Poultry & Eggs						
Turkeys	385,000	5.1	413,424	5.3	425,250	5.0
Broilers	85,605	1.1	68,940	0.9	77,690	0.9
Chicken Eggs	112,810	1.5	106,216	1.4	146,372	1.7
Other Livestock Products						
Honey	7,108	0.1	12,555	0.2	14,542	0.2
Miscellaneous Livestock & Products 4/	91,014	1.2	96,406	1.2	94,838	1.1
Total Livestock	4,336,481	57.0	3,621,896	46.0	4,072,171	47.4
TOTAL ALL CROPS AND LIVESTOCK	7,608,368	100.0	7,866,417	100.0	8,587,959	100.0

1/ The years 2001, 2002 and 2003 revised on July 29, 2004.

2/ Includes Commodity Credit loans (calculated by crop open market sales plus net CCC loans).

3/ Includes flaxseed, other oil crops, Kentucky bluegrass, red clover, timothy, and other seeds; asparagus, green lima beans, snap beans, cabbage, onions, carrots, cucumbers, miscellaneous vegetables, mushrooms, other fruits, other berries, Christmas trees, and other field crops.

4/ Wool, mink, goats, ducks, geese, beeswax, turkey eggs, farm chickens, and other livestock and poultry.

Note: Dollars and percent may not add to totals because of rounding.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/)

FARM BALANCE SHEET: Minnesota, 1999-2003

Item	1999	2000	2001	2002	2003
<u>Million Dollars</u>					
Total Farm Assets 1/	44,530.9	46,957.6	48,587.1	51,633.5	56,585.1
Real Estate	31,489.7	33,457.8	35,547.2	37,998.8	42,596.6
Livestock and Poultry 2/	2,438.3	2,485.8	2,602.2	2,436.7	2,562.2
Machinery and Motor Vehicles 3/	4,854.2	4,853.6	5,036.4	5,087.4	5,215.8
Crops 4/	2,094.1	2,388.0	1,701.6	2,195.5	2,191.1
Purchased Inputs	327.9	398.7	343.1	458.7	458.3
Financial	3,326.7	3,373.7	3,356.7	3,456.5	3,561.1
Total Farm Debt 1/ 5/	8,629.4	8,968.5	9,385.8	9,753.8	9,982.3
Real Estate	4,298.5	4,392.5	4,633.0	4,991.4	5,222.7
By Lender					
Farm Credit System	1,409.2	1,427.0	1,579.1	1,817.5	1,927.0
Farm Service Agency	140.0	134.5	132.3	125.7	112.6
Commercial Banks	1,376.8	1,485.6	1,551.7	1,650.5	1,753.6
Life Insurance Companies	268.8	252.9	256.4	261.3	265.4
Individuals and others	1,103.7	1,092.5	1,113.5	1,136.5	1,164.2
Nonreal Estate 1/	4,330.9	4,576.0	4,752.9	4,762.4	4,759.6
By Lender					
Farm Credit System	984.6	967.2	1,114.6	1,143.9	1,164.9
Farm Service Agency	185.8	190.4	188.2	180.2	172.7
Commercial Banks	2,323.3	2,520.1	2,529.7	2,491.4	2,446.1
Individuals and others	837.2	898.3	920.4	946.9	975.9
Total Farm Equity 1/	35,901.4	37,989.1	39,201.3	41,879.7	46,602.8
<u>Percent</u>					
Debt/Equity Ratio	24.0	23.6	23.9	23.3	21.4
Debt/Equity Ratio	19.4	19.1	19.3	18.9	17.6

1/ May not add to total due to rounding.

2/ Excludes horses, mules, and broilers.

3/ Includes only farm share value for trucks and autos.

4/ All non-CCC crops held on farms plus the value above loan rate for crops held under CCC.

5/ Excludes debt for nonfarm purposes.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/farmbalancesheet/fbsdmu.htm)

2004 Weather Summary

Snow and cold air were abundant in January and February, a switch from some of the balmy winters that Minnesota experienced over the past seven years. Despite the hefty amounts of snow, most of it was accompanied by very cold temperatures so the snow to water ratio was very high. The temperatures for January were cooler than normal. February started out cool, but then a warm up late in the month brought the monthly average back to near normal.

Two springtime storms brought some badly needed moisture to the state in March. The eastern third of the state had greater than average precipitation, while far west central was below normal. Northwest Minnesota saw at or slightly above average precipitation. The rain in northwestern Minnesota coincided with a rapidly melting snow pack. This led to some flooding along the Red River and its tributaries.

Despite some welcome rains in April, rainfall totals were generally short of the historical average. It was extremely dry in sections of west central and northwestern Minnesota where monthly precipitation totals were less than 20 percent of normal. This was part of a dry spell that began in July 2003 and continued until April 2004. The ten-month period saw rainfall deficits of four to six inches over central Minnesota and eight to twelve inches over the southeast.

In May, with an abruptness common to Minnesota's climate, precipitation patterns changed significantly across most of the state. The statewide area averaged precipitation total approached six inches, the fifth wettest May of the 114-year modern record. Along with the rain it was a cold month. The cool weather significantly delayed crop growth and spring green-up, especially in the north.

June was a return to drier than normal conditions. Rainfall was generally one to three inches below normal in most communities. However, there were exceptions. Portions of south central and southeastern Minnesota were extraordinarily wet, especially during the first half of the month. June monthly mean temperatures were generally three to five degrees below normal. In some northern Minnesota communities, the May plus June mean temperature was among the coldest on record.

Rainfall totals were highly variable in July. The heaviest precipitation occurred in portions of the south central where rainfall totals topped historical averages by two to four inches. Rainfall was short of average by one to two inches in some sections of the northeast. Continuing the cool summer that began in May and June, July temperatures were cool.

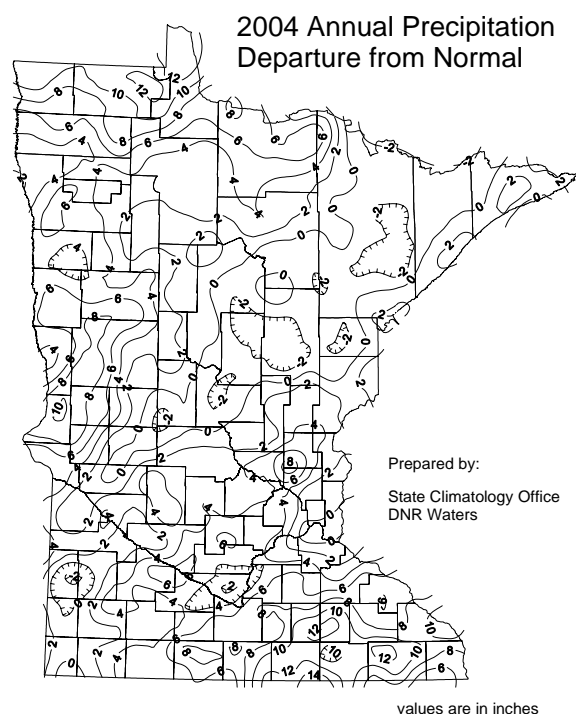
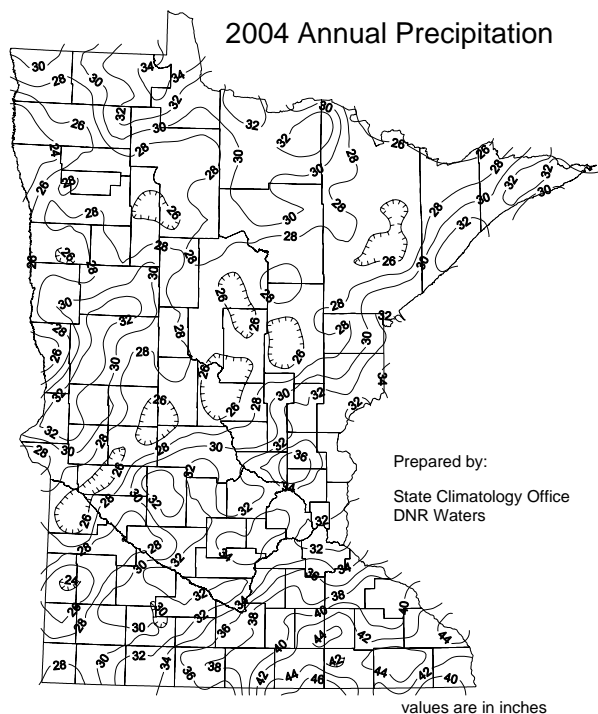
August was another cool and dry month. The continued cold temperatures sparked fears of reduced yields from crops. Rainfall was short of the historical average by one to two inches in many locations. Above normal precipitation was reported only in some areas of northwest, southwest, and south central Minnesota.

Much to the relief of farmers, September was much warmer than normal and had generous amounts of rain. It was among the warmest and wettest Septembers in the modern climate record. In fact, the average statewide temperature for September was higher than August. This is very rare, only happening once before in the modern climate record. It was exactly the weather needed for a good harvest.

October started off wet and mild allowing the soils to recharge nicely before the first frost. November was dry. In western communities, November 2004 was one of the driest Novembers on record. In December, there was little snowfall except in northern Minnesota. Temperatures were also mild at the close of the year with December finishing three to six degrees above normal.

The accompanying maps show that the northwest and southeast portions of the state finished above normal, while southwest through northeast Minnesota finished near normal.

Source: State Climatology Office, DNR – Division of Waters



MEDIAN FROST DATES: Minnesota, Based on Averages from 1948-92

District and County		Average Date of Last Temperature Occurrence			Average Date of First Temperature Occurrence			Number of Days Between Average Last Spring and First Fall Occurrence of:		
		24°F	28°F	32°F	32°F	28°F	24°F	32°F	28°F	24°F
Northwest										
Norman	Ada	Apr 24	May 06	May 14	Sep 24	Oct 02	Oct 13	133	153	176
Marshall	Argyle	Apr 26	May 09	May 18	Sep 22	Sep 28	Oct 10	126	143	168
Polk	Crookston	Apr 25	May 08	May 16	Sep 23	Sep 29	Oct 13	129	145	170
Becker	Detroit Lakes	May 02	May 10	May 21	Sep 17	Sep 24	Oct 05	116	139	157
Polk	Fosston	Apr 26	May 07	May 17	Sep 21	Sep 28	Oct 16	127	146	173
Kittson	Hallock	Apr 27	May 09	May 19	Sep 23	Oct 02	Oct 10	126	144	165
Clay	Moorhead	Apr 21	May 06	May 13	Sep 24	Oct 04	Oct 15	135	152	178
Red Lake	Red Lake Falls	Apr 20	May 08	May 17	Sep 22	Sep 28	Oct 10	127	141	176
Roseau	Roseau	May 04	May 14	May 25	Sep 16	Sep 25	Oct 07	112	137	159
Roseau	Warroad	Apr 30	May 10	May 21	Sep 23	Sep 28	Oct 12	124	141	165
North Central										
Lake of the Woods	Baudette	Apr 28	May 09	May 22	Sep 22	Sep 28	Oct 13	122	146	164
Beltrami	Bemidji	May 04	May 09	May 22	Sep 22	Sep 27	Oct 15	124	136	164
Koochiching	Big Falls	May 04	May 15	Jun 01	Sep 15	Sep 24	Oct 05	108	135	159
Itasca	Grand Rapids	Apr 27	May 09	May 23	Sep 20	Sep 27	Oct 09	116	141	165
Koochiching	Int'l Falls	Apr 29	May 12	May 24	Sep 17	Sep 25	Oct 08	114	138	163
Hubbard	Park Rapids	May 01	May 08	May 19	Sep 20	Sep 27	Oct 07	124	143	162
Northeast										
St. Louis	Babbitt	Apr 28	May 09	May 21	Sep 23	Oct 05	Oct 22	125	153	174
St. Louis	Duluth (Airport)	Apr 24	May 09	May 20	Sep 22	Oct 05	Oct 17	124	154	175
Cook	Grand Marais	Apr 17	May 01	May 15	Sep 30	Oct 19	Oct 30	138	171	194
St. Louis	Hibbing	Apr 28	May 12	May 29	Sep 13	Sep 26	Oct 06	107	137	163
West Central										
Douglas	Alexandria	Apr 13	Apr 24	May 08	Oct 01	Oct 12	Oct 25	146	169	194
Swift	Benson	Apr 13	Apr 29	May 07	Sep 30	Oct 10	Oct 18	146	166	189
Wilkin	Campbell	Apr 20	Apr 29	May 10	Sep 24	Oct 02	Oct 14	136	156	179
Yellow Medicine	Canby	Apr 14	Apr 28	May 08	Oct 01	Oct 10	Oct 21	147	163	189
Otter Tail	Fergus Falls	Apr 16	Apr 30	May 09	Sep 27	Oct 09	Oct 21	143	162	188
Lac Qui Parle	Madison	Apr 14	Apr 29	May 07	Sep 28	Oct 09	Oct 20	144	166	192
Lac Qui Parle	Montevideo	Apr 13	Apr 28	May 07	Sep 30	Oct 10	Oct 21	146	169	192
Stevens	Morris	Apr 14	Apr 29	May 08	Sep 27	Oct 06	Oct 17	143	161	185
Traverse	Wheaton	Apr 15	Apr 28	May 10	Sep 28	Oct 10	Oct 23	143	162	189
Central										
Sibley	Gaylord	Apr 09	Apr 17	Apr 30	Oct 05	Oct 14	Oct 24	159	180	193
Scott	Jordan	Apr 13	Apr 28	May 10	Sep 27	Oct 07	Oct 20	143	164	190
Morrison	Little Falls	Apr 19	May 02	May 12	Sep 24	Oct 03	Oct 17	136	154	181
Stearns	Melrose	Apr 12	Apr 28	May 11	Sep 24	Oct 05	Oct 16	138	160	186
Stearns	St. Cloud	Apr 19	May 01	May 12	Sep 24	Oct 05	Oct 17	138	157	180
Wadena	Wadena	Apr 22	May 16	May 12	Sep 24	Oct 03	Oct 18	137	156	180
Kandiyohi	Willmar	Apr 12	May 05	May 02	Oct 03	Oct 14	Oct 24	154	172	193
East Central										
Aitkin	Aitkin	Apr 23	May 06	May 19	Sep 23	Sep 28	Oct 18	126	149	176
Crow Wing	Brainerd	Apr 22	May 04	May 12	Sep 20	Oct 01	Oct 16	132	151	175
Pine	Hinckley	Apr 22	May 06	May 20	Sep 22	Sep 28	Oct 10	120	147	172
Hennepin	Maple Plain	Apr 13	Apr 25	May 06	Oct 01	Oct 13	Oct 25	153	169	195
Mille Lacs	Milaca	Apr 18	May 01	May 12	Sep 25	Oct 03	Oct 18	137	153	184
Carlton	Moose Lake	May 02	May 16	May 31	Sep 16	Sep 26	Oct 07	109	132	162
Kanabec	Mora	Apr 21	May 05	May 17	Sep 20	Oct 01	Oct 14	125	151	169
Washington	Stillwater	Apr 10	Apr 16	May 02	Oct 07	Oct 16	Nov 02	160	184	207
Southwest										
Redwood	Lamberton	Apr 09	Apr 28	May 06	Sep 29	Oct 07	Oct 15	146	163	188
Rock	Luverne	Apr 16	Apr 29	May 07	Sep 27	Oct 05	Oct 16	142	160	177
Lyon	Marshall	Apr 10	Apr 22	May 05	Oct 04	Oct 15	Oct 24	155	176	196
Pipestone	Pipestone	Apr 23	May 05	May 12	Sep 23	Oct 03	Oct 10	135	151	171
Cottonwood	Windom	Apr 14	Apr 15	May 07	Sep 30	Oct 07	Oct 19	146	167	189
South Central										
Freeborn	Albert Lea	Apr 09	Apr 20	May 02	Oct 05	Oct 18	Oct 31	156	181	201
Martin	Fairmont	Apr 06	Apr 14	May 01	Oct 09	Oct 20	Oct 31	161	189	208
Rice	Faribault	Apr 14	Apr 27	May 10	Sep 29	Oct 11	Oct 24	146	167	193
Brown	New Ulm	Apr 09	Apr 23	May 03	Sep 28	Oct 10	Oct 23	148	170	193
Waseca	Waseca	Apr 12	Apr 23	May 06	Oct 01	Oct 06	Oct 24	149	167	192
Faribault	Winnebago	Apr 09	Apr 19	May 03	Oct 06	Oct 17	Oct 26	158	180	203
Southeast										
Mower	Austin	Apr 12	Apr 29	May 07	Sep 27	Oct 06	Oct 23	144	166	191
Houston	Caledonia	Apr 14	Apr 24	May 06	Sep 29	Oct 11	Oct 26	152	174	192
Dakota	Farmington	Apr 11	Apr 21	May 03	Oct 03	Oct 12	Oct 29	155	178	201
Fillmore	Preston	Apr 21	May 07	May 18	Sep 21	Sep 29	Oct 13	125	148	178
Olmsted	Rochester	Apr 11	Apr 21	May 08	Sep 30	Oct 13	Oct 27	147	174	197
Winona	Winona	Apr 07	Apr 17	Apr 17	Oct 06	Oct 19	Oct 31	163	184	205
Goodhue	Zumbrota	Apr 17	Apr 30	Apr 30	Sep 25	Oct 03	Oct 18	139	157	187

Source: State Climatology Office, DNR - Division of Waters

MONTHLY PRECIPITATION: by Selected Stations and Districts, Minnesota, 2004

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<u>Precipitation (Inches)</u>												
Northwest												
Argyle	1.42	.41	1.43	.90	6.81	M.93	2.60	3.03	3.46	1.39	.02	1.07
Crookston	.31	.13	.76	.43	7.96	1.45	3.87	4.82	4.13	3.23	M.15	.88
Moorhead	.73	.73	1.60	.18	M	1.07	4.25	M	M	3.69	M	M
District Average	.82	.34	1.15	.58	6.78	1.61	3.72	3.66	5.10	3.58	.24	.97
District Normal	.71	.48	.96	1.63	2.52	3.71	3.17	2.96	2.55	1.72	.82	.69
North Central												
Grand Rapids	1.24	.68	1.54	1.22	4.16	.88	5.13	3.00	6.76	2.43	.54	1.78
Int'l Falls	.65	.14	.63	.90	5.00	1.54	4.33	1.50	5.99	3.98	.31	2.00
Walker	.94	.67	1.50	.39	4.33	.95	4.40	1.77	7.78	2.41	.75	1.08
District Average	.94	.56	1.32	.86	4.43	1.42	4.84	2.48	6.63	3.73	.38	1.34
District Normal	.78	.52	1.15	1.92	2.83	4.00	3.74	3.51	3.02	2.28	1.12	.83
Northeast												
Duluth	1.89	1.48	2.11	1.38	3.56	1.87	3.72	3.72	4.31	3.17	.49	2.13
Grand Marais	M1.07	.57	1.46	1.49	3.95	1.55	3.20	2.29	1.64	4.47	.92	M2.46
Hibbing	.25	.07	.56	.69	4.36	1.45	2.84	2.58	3.94	1.91	.03	.56
District Average	1.31	.75	1.70	1.63	4.37	1.82	3.13	2.83	4.20	3.47	.52	2.28
District Normal	.98	.66	1.36	2.03	2.93	4.03	3.70	3.81	3.58	2.54	1.56	1.05
West Central												
Canby	.64	.66	.64	1.75	4.72	4.45	2.73	4.15	4.11	3.15	.50	.15
Fergus Falls	.83	.44	1.41	.83	5.88	1.77	6.05	3.27	9.66	3.22	.21	1.16
Montevideo	M.20	M	M.89	1.43	5.98	2.32	3.55	6.05	5.70	4.49	.27	.10
Morris	.58	.73	1.52	1.09	5.21	4.19	3.49	2.09	5.98	2.26	.52	.23
District Average	.53	.60	1.03	1.20	4.93	3.16	4.11	2.89	6.46	2.92	.38	.26
District Normal	.73	.67	1.39	2.22	2.84	3.81	3.31	3.01	2.46	1.99	1.05	.65
Central												
Hutchinson	.28	M.75	1.29	.95	6.53	4.08	4.71	3.21	5.16	2.52	1.00	.08
Olivia	.40	M	M	1.49	7.23	3.81	2.43	3.07	6.32	M2.67	.62	.05
St. Cloud	.42	.80	1.34	1.29	6.72	3.67	3.48	1.63	5.13	3.37	.54	.46
Willmar	.51	.63	1.11	1.33	7.50	4.44	4.08	2.66	4.08	4.39	.71	.18
District Average	.65	1.09	1.32	1.75	6.40	4.15	3.62	2.30	5.84	2.83	.70	.31
District Normal	.79	.70	1.63	2.46	3.22	4.35	3.66	3.66	3.01	2.27	1.36	.86
East Central												
Aitkin	.94	.87	1.60	2.33	2.57	2.13	3.91	2.02	4.33	3.59	.54	1.10
Milaca	.58	.82	.96	1.13	4.80	4.22	2.19	1.96	6.50	3.39	.64	M.39
MSP-Airport	.23	1.09	2.11	2.06	6.39	3.06	3.36	1.19	4.21	2.32	.93	.44
District Average	.60	1.22	1.73	2.11	5.41	3.02	3.66	2.20	5.11	3.38	.78	.74
District Normal	.88	.69	1.62	2.33	3.31	4.31	3.88	3.83	3.35	2.46	1.52	1.04
Southwest												
Lamberton	.31	.47	1.09	1.06	6.78	3.48	3.82	5.07	5.82	.66	.86	.14
Marshall	M.05	.97	.61	1.14	5.97	5.00	3.43	5.07	3.11	1.62	.85	M.03
Pipestone	M1.22	.70	1.81	1.11	6.72	3.53	4.44	2.85	5.21	.65	M.59	M.12
Redwood Falls	.34	.63	.89	1.02	9.62	4.23	3.97	3.54	5.49	1.30	.70	.05
Windom	.83	1.03	1.61	1.82	3.96	2.41	5.86	3.17	6.34	1.16	1.04	M.20
District Average	.49	.67	1.59	1.43	6.46	3.32	5.21	3.64	5.58	.92	.92	.09
District Normal	.58	.68	1.70	2.56	3.18	3.78	3.73	2.95	3.08	2.04	1.28	.76
South Central												
Fairmont	M.49	1.12	2.43	1.27	M7.31	2.26	5.42	3.34	8.95	2.21	1.57	.09
Faribault	.48	1.70	2.49	1.84	8.52	4.89	6.56	2.52	5.19	2.29	M1.12	.28
Mankato	.50	1.18	2.60	1.51	5.63	7.94	6.34	6.06	6.32	1.11	1.13	.22
Waseca	.38	1.57	2.80	1.76	5.61	6.42	7.08	4.92	6.92	2.45	1.17	.21
District Average	.42	1.30	2.26	1.89	6.75	4.17	6.19	4.20	6.76	1.59	1.16	.25
District Normal	.77	.78	1.89	2.80	3.48	4.01	4.08	3.79	3.24	2.26	1.50	1.04
Southeast												
Austin	.26	1.52	1.01	2.53	8.43	3.74	9.11	4.55	5.77	2.10	2.28	1.18
Caledonia	.48	1.54	3.57	1.77	11.63	6.61	4.97	3.35	2.75	2.43	1.87	1.04
Rochester	.32	1.58	2.21	2.34	6.38	8.53	4.59	3.44	5.80	2.11	1.49	.59
Winona	.31	M1.43	4.27	1.84	10.57	7.07	6.06	4.87	5.66	2.59	1.91	.92
District Average	.37	1.52	2.83	2.01	8.24	6.54	5.13	3.74	5.66	2.53	1.75	.80
District Normal	.96	.86	1.96	2.91	3.72	4.03	4.19	3.98	3.77	2.57	1.75	1.23

M = Missing, insufficient, or partial data

Source: National Oceanic and Atmospheric Administration, U.S. Department of Commerce